



**GeoSat**  
**Microwave**

- High Linearity / High Efficiency
- Light Weight & Small Size
- Low Power Consumption 64W Typ.
- Int & Ext Reference Detection & Auto Selection
- LED Status Intication
- 3 Year GeoSat Product Warranty



## 10W C-Band Block Up-Converter (BUC)

Model: GB40NSF01



Section	Item	Specification	
Power Requirement	Voltage	24VDC or 48 VDC (Optional)	
	Power Consumption	64W typ.	
Input Characteristics	Frequency Range	950 ~ 1525 MHz (Standard)	
	LO Frequency	4.9 GHz	
	VSWR	1.5 : 1 max. @ Input port	
	Input Connector	Type N (female) or Type F (female), Optional	
Output Characteristics	Frequency Range	5.85 ~ 6.425 GHz (Standard)	
	Power @ 1dB Comp.	40.0 dBm typ. (10W)	
	RF Connector	WG-137 (with Groove)	
Transfer Characteristics	Gain nom.	65 dB typ.	
	Gain Flatness	± 2.0 dB max. @ room temp over full band	
	Gain Variation	±2.0dB over temp.	
	Spectral Regrowth	-30 dBc typ.	
	External Reference Frequency	External 10MHz @ IF Cable / Power Level : -5 dBm min.	
	Internal Ref. Stability	0.28 ppm	
	Phase Noise ▼	100Hz	< -70dBc / Hz
		1kHz	< -80dBc / Hz
10kHz		< -82dBc / Hz	
100kHz		< -105dBc / Hz	
Spurious	-60 dBc		
IMD (with 2 carries @6db back off)	-30 dBc		
LED Status	Green - The PLL lock status / Off - Loss of lock		
Mechanical	Dimension (mm)	192(L) X 131(W) X 97(H) mm, exclude connector	
	Weight	2.9kg	
Temperature	Operating: -40°C to +60°C	Storage: -45°C to +85°C	

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